TVTTTHA-, V.S.; LEVINA, R.Ya.			- 4
Cyclopropanes and cyclobutanes, Part 38: Ni rat phenylcyclopropanes. Zhur. ob. khim. 34 no.9:28	ion of 2 29-28 3 2	-substituted S '64. (MIRA 17:11)	
1. Moskovskiy gosudarstvennyy universitet.			

SHABAROV	, Yu.S.; POTAPOV, V.K.; LEVINA. R.Ya.	n properties	
	Ceclopropanes and cyclobutanes. Part 39: Electron-donor of small rings. Zhur. ob. khim. 34 no.9:2832-2834 S '6	64. (MIRA 17:11)	
	1. Moskovskiy gosudarstvennyy universitet.		

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		l. Moskovskiy gosudarstvennyy universitet.
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		그리고 있었다. 스크리 그리고 그러 그를 보는 것으로 모든 것이 되었다. 그 기록 하고 별살을 보는 것으로 되었습니다. 그리고 있을 것으로 하고 있다. 그리고 있는 것은 사람들이 가득하고 있습니다. 그 그렇게 되었습니다. 그 등을 받는 것으로 되었습니다.
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		물건 하고 있는 없는 것 같아 사람들이 되었다고 있다고 없다고 있다는 것이 없는데 이 감독을
		그 이 이 이 살이 아니다. 아이는 아는 아이는 아이는 아이는 사람들이 나는 사람이 나를 하셨다면 때문에 다른 사람들이 되었다면 하는데
		: 하는데 사용 : Barta

SHABAROV, Yu.S.; DONSKAYA, N.A.; SYCHKOVA, L.D.; LEVINA, R.Ya.

Cyclopropanes and cyclobutanes.

in the reactions of electrophilic substitution. Vest. Mosk.

un. Ser. 2:Khim. 20 no. 5:73-76 S-0 '65. (MIRA 18:12)

1. Kafedra org. heskoy khimii Moskovskogo gosudarstvennogo universiteta. hmitted Nov. 9, 1964.

BORISOV, V.A., kand.tekhn.nauk; SHABARCHIN, A.P., inzh. Effective method for evaluating the agglutination of cold asphalt-concrete mixes. Avt.dor. 25 no.7:17-18 J1 '62. (Asphalt concreteTesting) (Asphalt concreteTesting)														.7				177		 A TV	ОΠ	TN					4.										-				11 21341213
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Country : USSR

Category : Farm Animals.

rarm animals. The Honeybee.

Q:

Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96941

Author : Shabardin, L. I.

Institut. : Kirov institute of Agriculture. Title : Bees of the Kirovskaya Oblast'.

Orig Pub. : Tr. Kirovskogo s.-kh. in-ta, 1957, 12, No 24,

75-84

Abstract : The length of the probacts in local bees is

6.15 ± 0.005 mm. When Caucasian bees were hybridized with local breeds, the length of the probescis decreased from 6.84 ± 0.02 to

oroposcis decreased from 6.4 1 0.02 to 6.28 1 0.015 in the third generation. Mass imports of Kuban yellow bees and Georgian high-mountain bees proved to be unjustified; the

mountain bees proved to be unjustified; the hybrid colonies collected less honey than lo-

cal colonies.

Card: 1/1

ARPROVED FOR RESEASE: 07/20/2001 CATEGORY Farm Animals / Honeybee CIA-RDP86-00513R001548510007-0"

ABS. JOUR. : RZBiol., No. 13 1950, No. 59646

AUTHOR
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TITLE

Snabaruin, I.I.

Author

ME. Canada

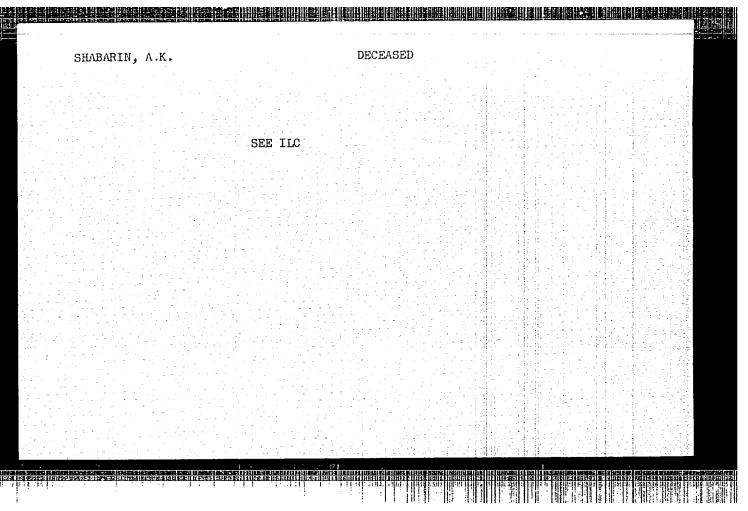
Title

The Honeybees of Arovskaya Oblast

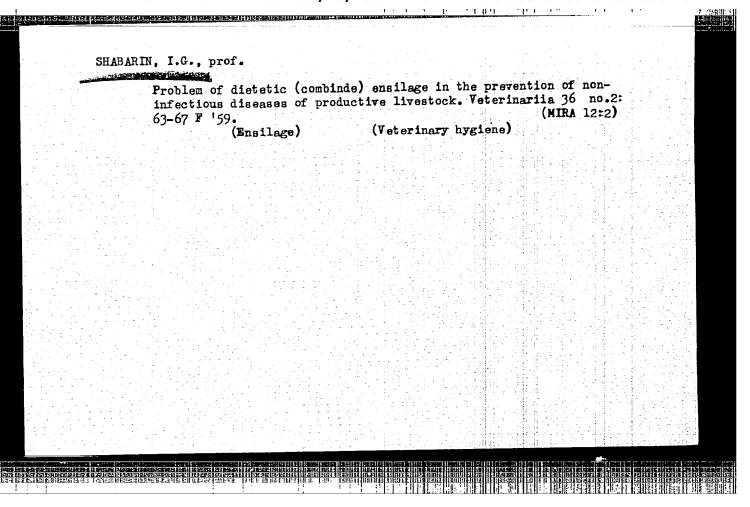
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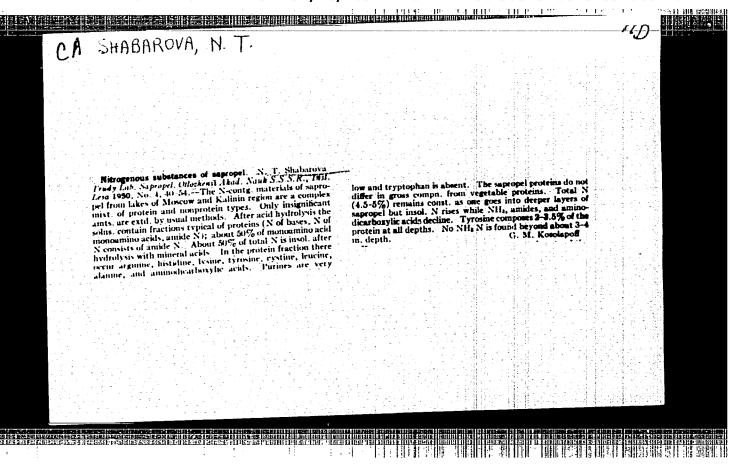
ABSTRACT: From the experience of bringing 6,000 Kuban Yellow and in part, Gray High-Hountain bees into Kirovskaya Oblast, the conclusion is drawn that this transfer of honeybees brought about no positive results. The hybrid colonies of High-Mountain bees had a prolonged ligula in the first generation, were less bad-tempered and produced more honey (though not in all cases). These positive characteristics disappear in subsequent generations.

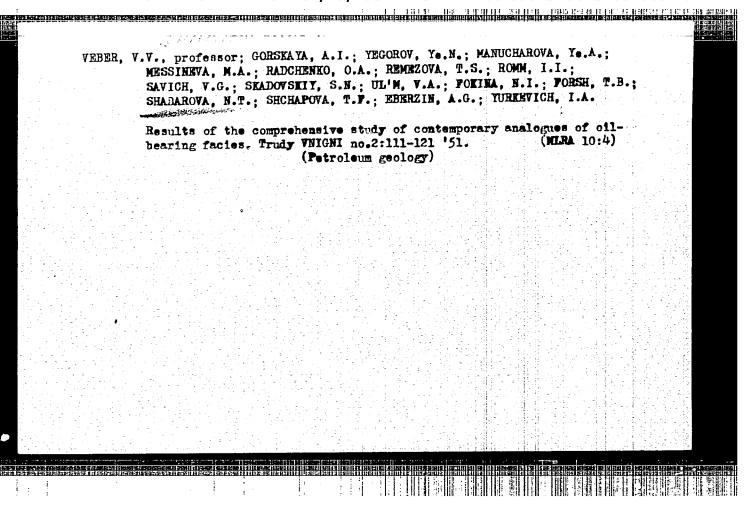
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SHABAROVA, N. T

USSR/Minerals-Petroleum

Card

1/1

Authors

Shabarova, N. T., Cand. of Biological Sciences

1455年1460年高級政府等級的計算

Title

Processes of petroleum formation

Periodical

Priroda, 6, 95 - 97, June 1954

Abstract

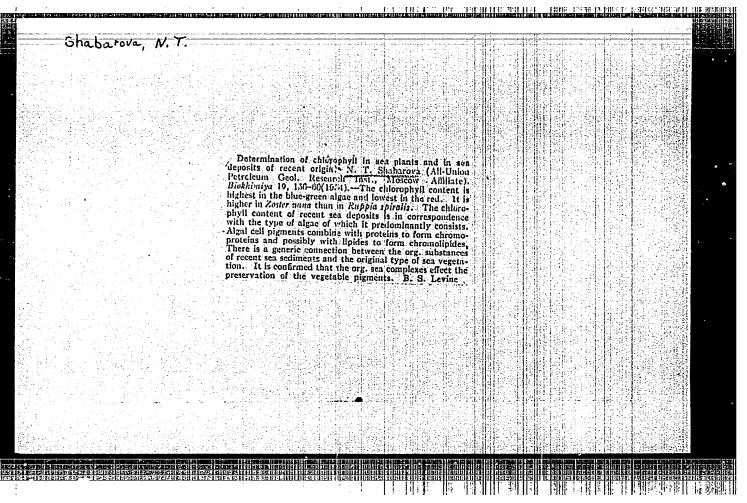
The underground chemical conversion processes leading to the formation of petroleum deposits are explained theoretically. Even though petroleum is found in various geological conditions and at various depths, its elementary composition varies only slightly, e.g. carbon between 84 and 86% hydrogen between 12 and 14%. The concept about the formation of petroleum deposits, as result of scattered bitumena, is declared baseless. Diagram showing the conversions of an organic substance in

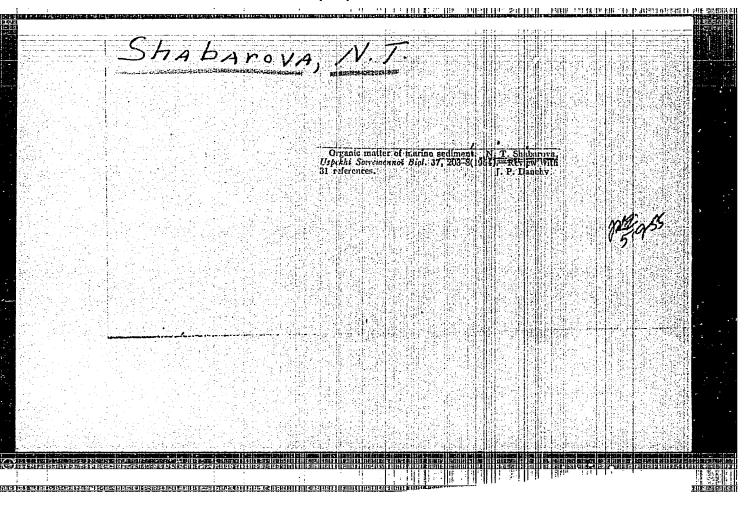
sea deposits is included.

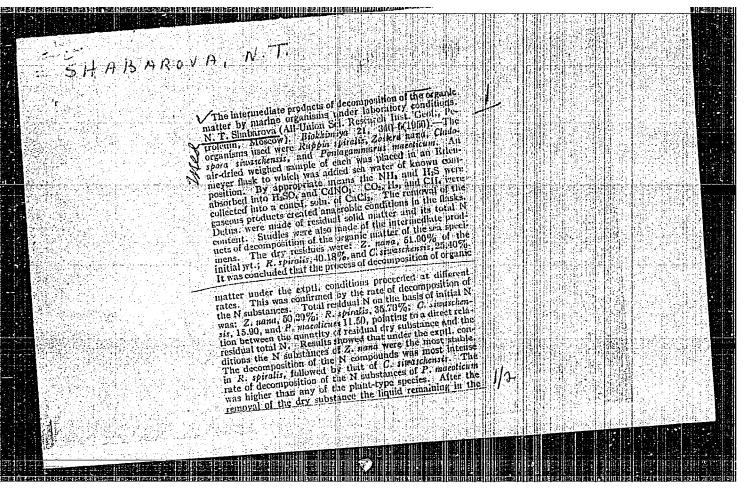
Institution :

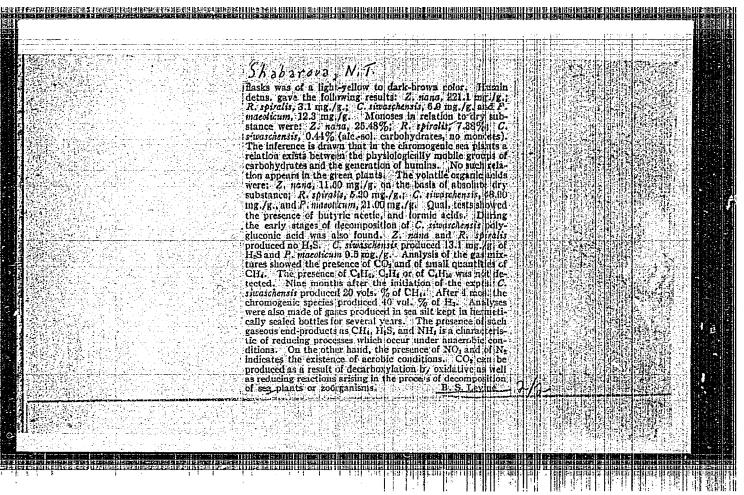
All-Union Scientific Research Petroleum Institute

Submitted

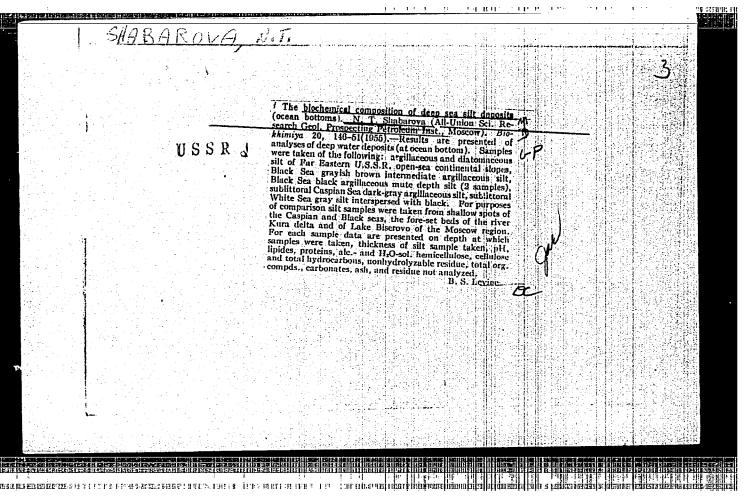


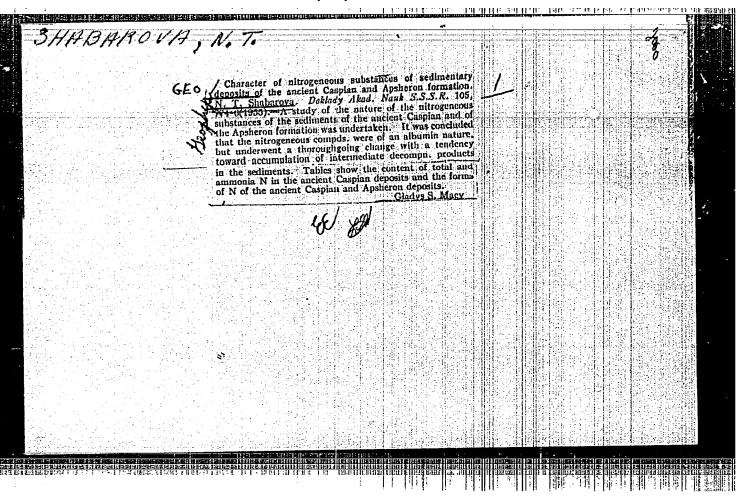


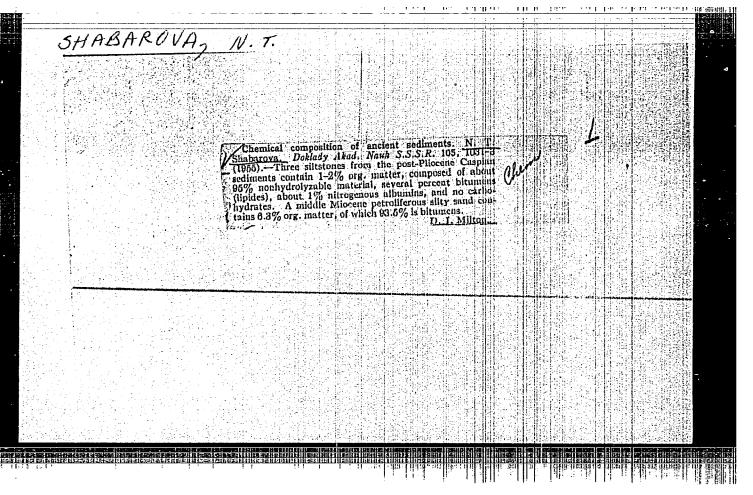


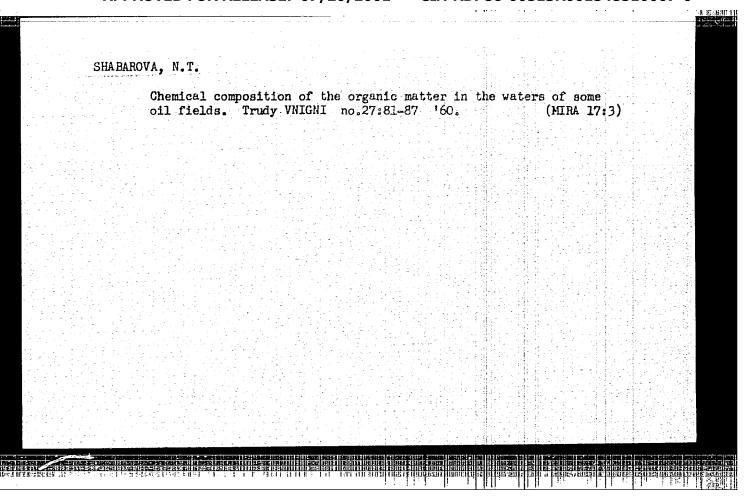


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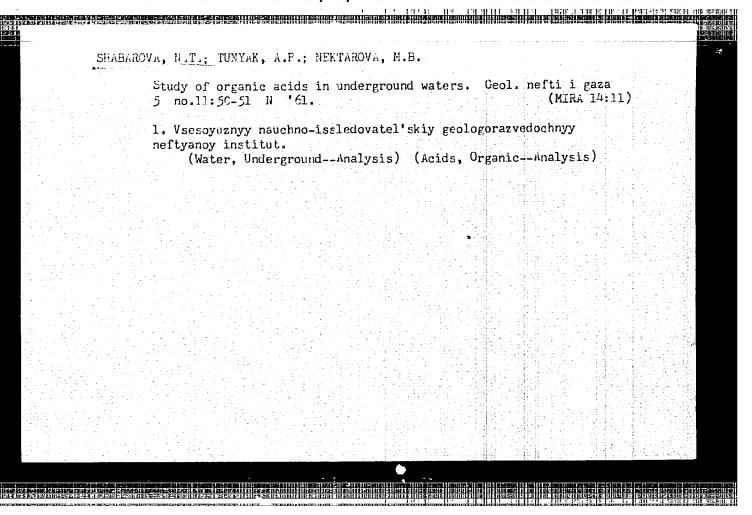




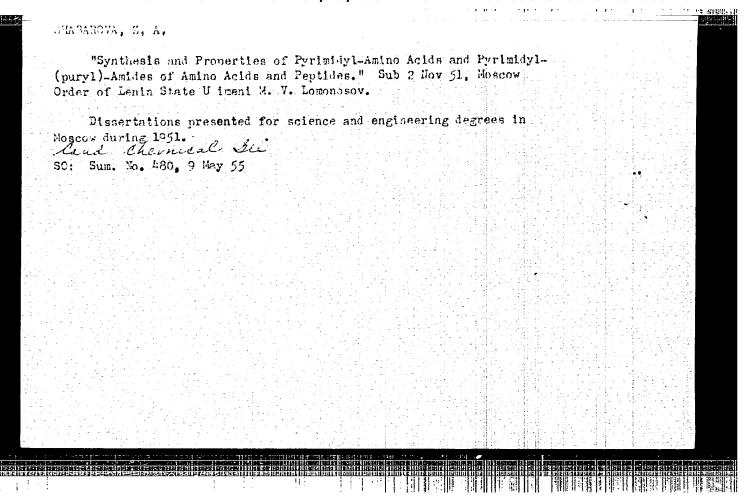


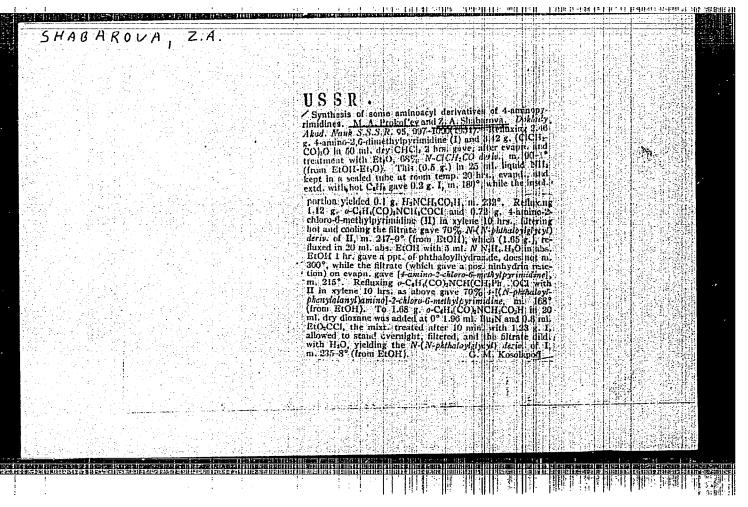


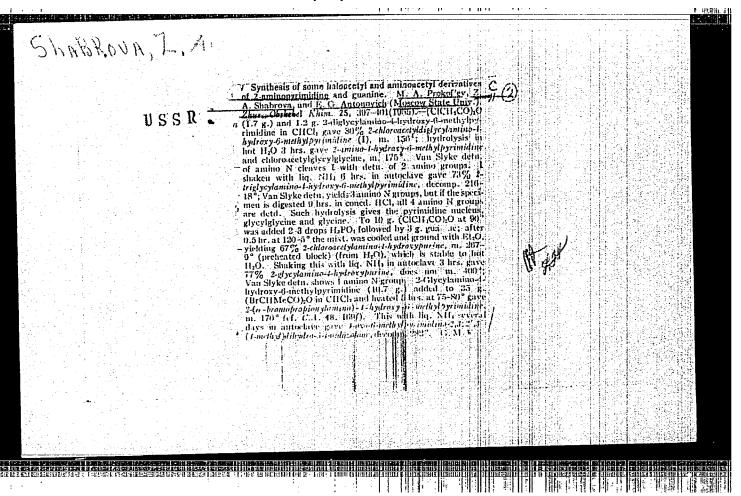
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SHABAROVA, Z.A.

USSR/Chemistry - Albumina synthesis

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Pub. 22 - 31/52

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Authors

Shabarova, Z. A., and Prokofyev, M. A.

Title

Synthesis of pyrimidino-3, 4-: 2',3' imidoazolones-5'

Periodical

Dok. AN SSSR 101/4, 699-702, Apr 1, 1955

Abstract

It was proven experimentally that the reaction between the anhydride of chloroacetic acid and 4-aminopyrimidine occurring in fusion or in a chloroform solution results in the formation of homologous pyrimidine -3,4:2', 3'-imidoazolones-5'. The fact that the synthesis reaction follows through the stage of chloroacetylation of the amino group was confirmed by the synthesis of other phyrimidine groups which are already described in literature. The physico-chemical properties of the azolones obtained are listed. Four references: 2 USA, 1 USSR and 1 French (1909-1954).

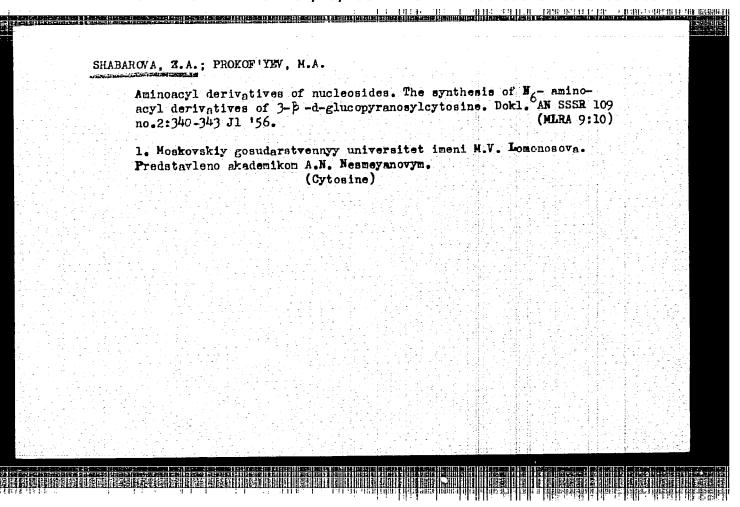
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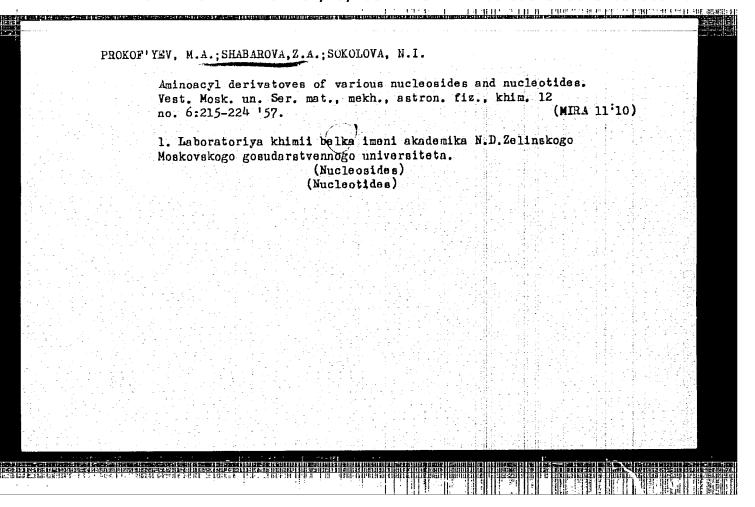
The M. V. Lomonosov State University, The N. D. Zelinskiy Laboratory

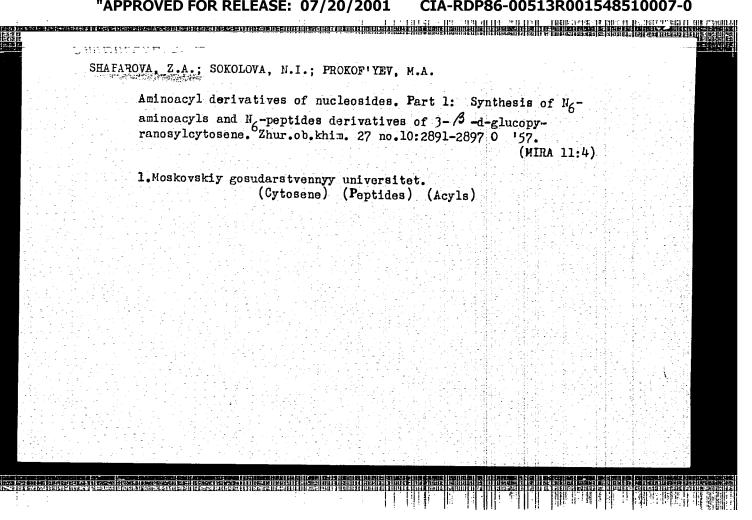
of the Chemistry of Albumin, Moscow

Presented by :

Academician A. N. Nesmeyanov, October 25, 1954







CIA-RDP86-00513R001548510007-0" APPROVED FOR RELEASE: 07/20/2001

79-11-26/56 Shabarova, Z. A., Sokolova, N. I., AUTHORS: Prokof yev, M. A. Aminoacyl Derivatives of Nucleosides (Aminoatsil'nyye TITLE: proizvodnyye nukleozidov). II. Structure and Properties of the Aminoacyl- and Peptide-Derivatives of 3-β-d-glucopyranosylcytosine (II. Struktura i svoystva aminoatsil'nykh i peptidnykh proizvodnykh 3-β-dglyukopiranoziltsitozina). Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11, PERIODICAL: pp. 3028-3034 (USSR) The synthesis of the aminoacyl- and peptide-derivatives of ABSTRACT: 3-β-d-glucopyranosylcytosine was earlier described by the authors. But the formula ascribed to the and products was set up rather arbitrarily. Supplementary investigations were needed for determining the correct structure. Besides the authors considered it necessary in examining the aminacyland peptide-derivatives of the nucleosides, as possible fragments of the nucleoproteins, to investigate the properties of the obtained compounds more thoroughly, especially also the hydrolysis of the amido-bond. They attempted to determine the structure of the obtained products spectroanalytically by Card 1/3

Aminoacyl Derivatives of Nucleosides. II. Structure and Properties of the Aminoacyl- and Peptide-Derivatives of $3-\beta-d$ -glucopyranosylcytosine

79-11-26/56

comparison. It was shown that N aminoacyl- and N peptidederivatives of nucleoside form in the reaction of the aminoacylation of cytosine-nucleoside with mixed anhydrides of kbs-amino acids and kbs-peptides. The amido-bond in the N bs - aminoacyl- and N kbs - peptide-derivatives of cytosinenucleoside is to be influenced by hydrolysis of water not at all, by acid hydrolysis with difficulty and only by alkali easily. There exists a dependence of the duration of hydrolysis on the character of the aminoacyl residue which forms the amido-bond.

There are 5 figures, 2 tables, and 4 references, 2 of which are Slavic.

Card 2/3

Aminoacyl Derivatives of Nucleosides.

II. Structure and Properties of the Aminoacyl- and Peptide-Derivatives of 3-β-d-glucopyranosylcytosine

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: October 9, 1956

AVAILABLE: Library of Congress

1. Nucleosides - Aminoacyl derivatives 2. 3-3-d-glucopyranosylcytosine - Derivatives

Card 3/3

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SHABA	AROVA, Z. A.	•								
м. А.	. Prokof'ye	r and Z.	1. Shabar	rova						
"The	synthesis o	of deriva	tives of	amino aci	ds with r	ucleot	ides ar	nd nucl	eosides"	
	report pre	sented at	the 10t	h All-Uni	on Conf.	on High	ly Mol June	ecular 1958.	Compounds (Vest. Ak	
	Neuk 65SR	1958, No	. 9, pp.	111-113)						
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SOV/20-123-5-26/50

5(3) AUTHORS: Shabarova, Z. A., Satarova, L. G., Prokof'yev, M. A.

TITLE:

The Synthesis of P-Amino Acid Derivatives of Adenylic Acid (Sintez P-aminokislotnykh proizvednykh adenilovoy kisloty)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 864-867 (USSR)

ABSTRACT:

The chemistry of the amino acid derivatives of nucleic acid and of the nucleotides is still in the pioneering stage, although these compounds play an important part in several biochemical processes. Compounds in which the amino acids are linked with mononucleotides by way of the phosphoric acid residue apparently play a role of particular importance. The present paper deals with the synthesis and the study of the properties of these compounds. The authors have produced 2 types of amino acid derivatives of adenosine-5!phosphate: (I) compounds with a phosphoamine linkage between the nucleotide and the amino acid. They had hitherto not been described (Ref 1). Their synthesis was obtained by the action of amino acid ester on 2:: 3'-isopropylidene-adenosine-5'-benzylphosphite (III) (Ref 2) in the presence of CCl4 (Refs 3,4). The constants and the yields of the esters of the N adenyl-amino acids produced are presented in table 1. The method of synthesis suggested by the authors is simple and guarantees sufficiently high yields. It must

Card 1/3

The Synthesis of P-Amino Acid Derivatives of Adenylic Acid SOV/20-123-5-26/50

be regarded as preparative and can apparently be extended to the other nucleotides. Finally, it was proved that the P.N linkage in substances of the type (I) is readily hydrolized by acids, but is hydrolized with difficulty by alkali. Thus the structure (shown in the scheme) was confirmed. The synthesized substances of the type (II) do not contain any phosphosmine linkage (see scheme). Of late, the methods of synthesis of mixed anhydrides of adenylic acid and of the amino acids have been studied intensively (Refs 5-8). The authors have succeeded in obtaining the mixed anhydrides of adenylic acid with khz-lausine (kbz-leytain) and kbz-glycine from 21: 3 -isopropylidene-adenosine-5 -bency phosphite according to the scheme given. As the suthors were interested in the reactivity of the substance (II) with the amino acid under formation of peptides, they did not isolate (II); on the contrary, they proceeded to introduce it into the reaction with the amino acid ester. In this way, anhydrides of 2' : 3'-ispropylidens-adenosine-5'-benzyl--phosphoric acid with kbs-glycine (IIa) and with kbz-leucine (IIb) were produced. The substances IIa and IIb react with glycine or phenyl alanine methyl esters and form esters of kbz-glycyl-phenyl alanine and of kbz-leucyl-glynine. The formation of dipeptides

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The Synthesis of P-Amino Acid Derivatives of Adenylic Acid SOV/20-123-5-26/50

was demonstrated chromatographically .- There are 1 table and

10 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED:

July 16, 1958, by A.N. Nesmeyanov, Academician

SUBMITTED: Jul

July 10, 1958

Card 3/3

50V/74-28-4-2/6 5(3) Shabarova, Z. A. (Moscow) AUTHOR: Structure and Synthesis of Nucleosades (Struktura i TITLE: sintez nukleozidov) Uspekhi khimii, 1959, Vol 28, Nr 4, pp 369-407 (USSR) PERIODICAL: A thorough development of the chamistry of nucleosides and nucleotides did not begin until new investigation methods ABSTRACT: were introduced by which the accusture of natural nucleosides and nucleotides could be determined and methods for the synthesis of these compounds and their analogues could be developed. In the survey under consideration the simplest representatives of this class of the nucleosides of are discussed. Since the same nucleosades belong to the nucleotide coenzymes, as well as to NG (nucleac asid) here the nucleosides precipitated from NC (Table 1) are discussed. Moreover, nucleosides obtained from other natural objects are considered. Tables 4 and 5 contain data on synthetic nucleosides. In determining the structure of nucleosides the following questions have to be considered: a) the nature of the bases, b) the nature of the sugars contained in the nucleosides, Card 1/5

Structure and Synthesis of Nucleosides

sov/74-28-4-2/6

c) the point of attachment of the sugars to the base, d) the cyclic structure of the sugars, e) the configuration of the glucosidic center. At present it is maintained that adenin and guanin are the main purine bases belonging to the nucleosides of RNC (ribonucleic acid) and DNC (desoxyribonucleic acid). Both adenin and guanin were for the first time separated from NC hydrolysates (Refs 62, 63). Their structure was confirmed by the synthesis (Refs 66, 67). The carbohydrate components of the nucleic acid are only two sugars D-ribose and 2-desoxy-D-ribose which determine the type of NC (RNC and DNC), Gulland and his co-workers who investigated the ultra-vaolet absorption speatra of the natural nucleosides concluded that the glucosidic residue in purine nucleosides is astached to the nitrogen (in position $9(N_q)$) of the inidexol syste of the purane base. The problem of the position of the sugar attachment to the purine nucleus was finally solved by the comparison of synthetic nucleosides with a certain structure to nucleosides precipitated from nucleic acts. Levene and Tipson (Refs 112,

113) gave the first evidence of the size of the oxidation

Card 2/5

Structure and Synthesis of Nucleosides

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504/74-28-4-2/6

cycle in the sugar of nucleosides; they showed the furancee structure of ribose in natural nucleosides. A micromethod for determining the size of the sugar cycle has been developed recently on the passes of "titration with periodate" (Ref 130). The size of the sugar cycle of very weakly concentrated substances can be determined by this method. The determination of the glynosidic center in purine and pyrimidine nucleosides is based on the comparison of aldehydes obtained by oxidation with periodate (Refs 127, 131). Recently, the configuration of the nucleosides has been proved convincingly by chemical methods. On the basis of the data obtained on the structure of the nucleosides in was found that all purine nucleosides separated from NC hydrolysates are 9-4-D-rib- and 9-4-D-2 edesoxyribofuranosides, respectively, of the respective purine bases, and the pyrimidine nucleosides are 3-3-D-ribo- and 3-9-D-21desoxyribofuranosides, respectively, of pyrimidine bases (Table 1). Free nucleosides do not always have this structure (Table 2). There are 3 different synthesis methods of pyrimidine nucleosides. The first method is the condensation of 2.4-dialkoxypyrimidine with halogen acyl sugar. In the

Card 3/5

buy/74-20-4-2/4 อร์ต โฮโฟตล (และ วิวัติโปโลยโลย (เมิวได้เดียตนในโรม second nothed the hucleosides are formed by the effect of halogen acyl sugar on pyrimidine ercury derivatives with different substituents in the nucleus. In the third method Elyccail amines serve as initial substances which form pyrimidine nucleoside in the condensation with $\tilde{oldsymbol{eta}}$ - it can be explained in the synthesis น้องที่เรียนที่นี้สามนักว่า มากลอดกระได้เหลือ ใช้เหลือ ได้ ใช้ ได้เลื่องได้ เลื่อง ได้เลื่อง groupe. The them or our conference which i calude an adduttion of the super realite to the finished purine nucleus. These syntheses usually ture place by the effect of acetyl halogen sugar on actallic purine derivatives. The methods of the second group are subth on the transformation of corresponding pyriticine nucleosides into purine nucleosides by closing the imidozol cycle. In this case pyrimidine nucleoside is the starting point which has a sugar residue as the amino group in position 4(5) and a free amino group in position 5. In the third group glycosides are used as initial substances which are obtained from the dia lie of imidazol-4.5-dicarboxylic acid. In the decomposition they are collized according to Hofman and change into the corresponding purine nucleosides. The good results obtained card 4/5

Structure and Synthesis of Nucleosides

recently in the field of nucleoside synthesis render it possible to obtain various analogues of natural pyrimidineand purine nucleosides. They are used in the study of metabolism, in the chemotherapy of twoors, and in other fields. There are 5 tables and 25 reforences, 5 of which are soviet.

Card 5/5

507/79-29-1-46/74 Shabarova, Z. A., Polyakova, Z. P., AUTHORS: Prokof'yev, M. A. Aminoacyl Derivatives of Nucleosides (Aminoatsil'nyye TITLE: proizvodayye nukleozidov). III. Synthesis of Aminoacyl Derivatives of Adenosin and 9-β-d-Glucopyranosyl Guanin (III. Sintez aminoatsil'nykh proizvodnykh adenozina i 9-β-d-glyukopiranozilguanina) Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, PERIODICAL: pp 215 - 221 (USSR) It was the aim of the present paper to synthesize the ABSTRACT: aminoacyl derivatives of purine aminonucleosides which are part of nucleic acid as well as adenosin and guanosin. The initial adenosin was separated from adenosin triphosphoric acid (=ATA). In this connection conditions of hydrolysis were worked out which permitted a separation into two directions without any difference (Scheme 1), according to the quantity of pyridine solution in water, reaction duration, pressure and temperature. In the one case adenosin is formed as the main product beside adenosin-5-phos-Card 1/2

SOV/79-29-1-46/74 Aminoacyl Derivatives of Nucleosides. III. Synthesis of Aminoacyl Derivatives of Adenosin and $9-\beta-d-Glucopyranosyl$ Guanin

> phoric acid, in the other case mainly the latter which was proved by paper chromatography (Ref 4). The separation of the two final products was carried out according to the absorption method. The other used purine nucleoside, 9β-d-glucopyranosyl guanin (the analogue most similar to guanosin) was synthetically preserved according to Davoll and Lowy (Ref 5)(Scheme 2). The final product was a mixture of two guanins and was only to be separated by multiple re-crystallization into two isomers, 9-β-d and 7-β-d-isomer. Only the former was used for aminoacylation. Aminoacylation of adenosin and 9-β-d-glucopyranosyl guanin brought after many failures - a success only with help of chloranhydrides of phthalyl aminoacids (Scheme 3). The reaction took place in boiling in absolute benzene in the presence of tributylamine or in absolute pyridine ithin several hours. The synthesized compounds are given by both tables. There are 2 tables and 11 references, 3 of which are Soviet. Moskovskiy gosudarstvennyy universitet (Moscow State University)

ASSOCIATION:

November 5, 1957

SUBMITTED:

Card 2/2

507/79-29-2-40/77

AUTHORS:

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Shabarova, Z. A., Sokolova, N. I., Prokof'yev, M. A.

TITLE:

Amincacyl Derivatives of Nucleosides (Aminoatsilinyye proizvodnyye nukleozidov). IV. Synthesis of N₆-Polypeptide Derivatives of 3-β-d-Glucopyranosyl Cytosine According to the "Carbodi-

of 3-β-d-Glucopyranosyl Cytosine According to the order of 3-β-d-Glucopyranosyl Cytosine According to the constraint of the constraint of

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 539-544 (USSR)

ABSTRACT:

The yields of aminoacyl nucleosides by aminoacylation of cytosine nucleoside according to references 1,2 amounted only to 50%. Much better results are obtained according to the "carbodimide" method (Ref 3). It consists in the aminoacylation of the active amine group with an amino acid or a peptide in the presence of an N,N'-diaryl carbodimide. This method has a great advantage over that mentioned above by which the peptide bond is synthesized with mixed anhydrides of amino acids. However, the latter are very unstable. The aminoacylation with amino acids and peptides in the presence of carbodimide takes place in humid medium (even in water) at room temperature.

Card 1/2

SOV/79-29-2-40/71 Aminoacyl Derivatives of Nucleosides. IV. Synthesis of No-Polypeptide Derivatives of 3-β-d-Glucopyranosyl Cytosine According to the "Carbodiimide" Method tives of 3-β-d-Glucopyranosyl Cytosine According to the Besides, it is more favorable to introduce the free amino acid rather than their active derivatives.N,N'-dicyclonexyl carbodiimide was used as condensing agent (Ref 4) (Scheme 1). Thus, the yield of N₆-kbz-glycyl-3-β-d-tetraacetyl glucopyranosyl cytosine was increased from 34 to 55% and that of N₆-kbz-phenylalanyl-3-β-d-terraacetyl glucopyranosyl cytosine was increased from 55 to 81%. The polypeptide derivatives of the cytosine nucleoside can be synthesized from monoacylamino nucleosides as well (Scheme 2). The monoaminuscyl nucleosides with a free amino group used in these syntheses were obtained by reduction according to scheme 3. There are 3 tables and 5 references, 3 of which are Soviet. Moskovskiy gosudarstvennyy universitet (Moscow State University) ASSOCIATION: SUBMITTED: November 5, 1957

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R001548510007-0"

Card 2/2

APPROVED	THE SECTION OF THE SE
5(3) AUTHORS:	Shabarova, Z. A., Sokolova, N. I., SOV/79-29-9-23/76 Boykova, L. A., Prokof'yev, M. A.
TITLE:	Aminoacyl Derivatives of Nucleosides. V. Synthesis of N ₆ -Aminoacyl- and N ₆ -Peptide Derivatives of Cytidine
PERIODICAL:	Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2917-2922 (USSR)
ABSTRACT:	In continuation of their earlier research work (Ref 1) the authors deal here with the synthesis of cytidine (3-β-D-ribo-furanosylcytosine) and its N ₆ -aminoacyl- and N ₆ -peptide
	derivatives. The so-called "carbodiimide method" is, as already previously shown, the most convenient method of synthesizing N _C -aminoacyl- and N _C -peptide derivatives of
Card 1/3	cytosine nucleoside. Its application to the synthesis of aminoacyl derivatives of cytidine made it possible to use in this reaction a nucleoside with non-substituted oxy-groups of saccharide, since no aminoacylation of the oxy-groups takes place under these conditions (Ref 6) (reaction scheme). Table 1 gives yields and constants of the synthesized
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Aminoacyl Derivatives of Nucleosides. SOV/79-29-9-23/76

V. Synthesis of N₆-Aminoacyl- and N₆-Peptide Derivatives
of Cytidine

derivatives of cytidine. Thus, kbz-phenyl alanyl cytidine (yield 90%) resulted from the acylation of cytidine with phenyl alanine (kbz-phenyl alanine). Its ultraviolet absorption spectrum is equal to that of another well-known cytosine derivative (Ref 7) so that its structure is known; aminoacylation of cytidine proceeds also on the amino group under the formation of the N₆-aminoacyl- and N₆-peptide derivative of cytidine with various amino acids (serine,

derivative of cytidine with various amono actus (serine, tyrosine, cysteine, lysine) which contain also other functional groups apart from the α -amino group. The aminoacyl derivatives of 3- β -D-glucopyranosyl cytosine were synthesized in the same way (Table 2). As the various N₆-aminoacyl

derivatives obtained from cytosine nucleosides differ in the structure of the amino acid which forms the amide bond, or in the structure of the saccharide, the effect of these components on the hydrolytic stability of the amide bond was investigated. Table 3 shows the results of the hydrolysis of N_6 -aminoacyl derivatives of cytidine and 3- β -D-glucopyranosyl

Card 2/3

Aminoacyl Derivatives of Nucleosides. SOV/79-29-9-23/76 V. Synthesis of N₆-Aminoacyl- and N₆-Peptide Derivatives of Cytidine

cytosine, containing the same amino acids and peptides, and, for comparison, also the data on the hydrolytic stability of the amide bond in the N_6 -aminoacyl-3- β -D-tetraacetyl

glucopyranosyl cytosine. The hydrolytic stability of the amide bond in the above compounds was found to depend on the nature of the hydrolyzing carbohydrate which forms part of the nucleoside, as well as on the nature of the aminoacyl residue. There are 3 tables and 8 references, 4 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State

University)

SUBMITTED:

July 19, 1958

Card 3/3

5 (3), 17 (3) SOV/20-128-4-29/65 Shabarova, Z. A., Sokolova, N. I., AUTHQRS: -Prokof yev, M. A. Peptide Synthesis by Means of Aminoacyl Derivatives of TITLE: Nucleosides Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4, pp 740 - 743 PERIODICAL: (USSR) The compounds of nucleotides and ribonucleic acid (RNS) with ABSTRACT: amino acids are poorly investigated (Ref 2) in spite of their great importance for protein biosynthesis (Ref 1). In the present paper, some 0- and N-aminoacyl derivatives of nucleosides formed as intermediates in the protein biosynthesis were synthesized and studied. The authors tried, above all, to clarify the ability of such compounds for a peptide synthesis (i.e. for the amino acylation of free amino groups of amino acids or peptides). 2 types of aminoacyl nucleosides: O-carbobenzoxy-phenyl-alanine derivatives of adenosine (type I) and N6-aminoacyl derivatives of cytidine (type II), were investigated. The aminoacylating ability of the said synthesized substances (I) and (II) was studied under almost natural conditions Card 1/3

Peptide Synthesis by Means of Aminoacyl Derivatives of SOV/20-128-4-29/65. Nucleosides

namely in the presence of a ferment - chymotrypsine - at room temperature and at pH 8 (phosphate buffer solution). It was shown that both (I) and (II) easily react with the free amino group to form a new peptide bond. Table 1 shows a list of peptides which are formed by the effect of (I) and (II) on glycinethyl ester. Under the same conditions, but without a ferment, no peptide synthesis was observed. Only in one case - in the reaction of IIa (see Scheme) with glycin ester - traces of phenyl-alanine-glycine are formed, even without any chymotrypsine. The peptide formation from (I), (II) and the glycin ester also takes place without any ferment, but under harder conditions (by boiling in benzene). The above results indicate a high reactivity of the O- and N-aminoacyl derivatives of nucleosides. This suggests the possible participation of such compounds in the synthesis of the peptide bond. There are 1 table and 6 references, 3 of which are Soviet.

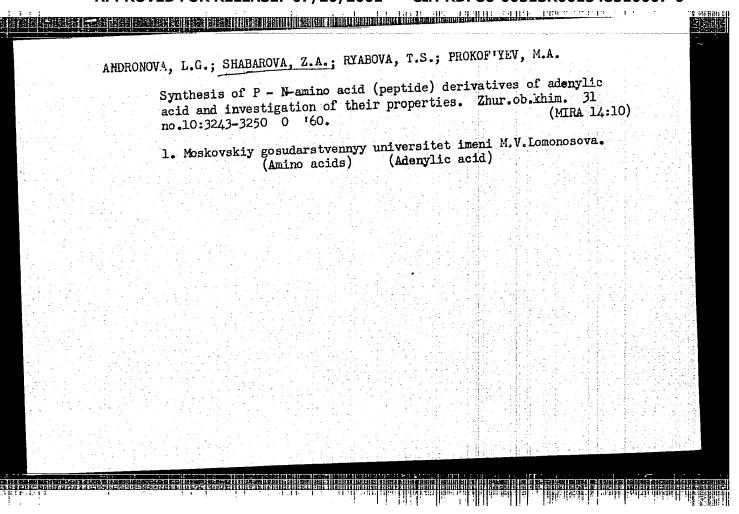
Card 2/3

Peptide Synthesis by Means of Aminoacyl Derivatives of SOV/20-128-4-29/65 Nucleosides

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: May 22, 1959, by A. N. Nesmeyanov, Academician SUBMITTED: May 17, 1959

Card 3/3



DREYMAN, E.Ya.; DMTTRIYEVA, V.A.; KAMZOLOVA, S.G.; SHABÆROVA, Z.A.;
PROKOF'YEV, M.A.

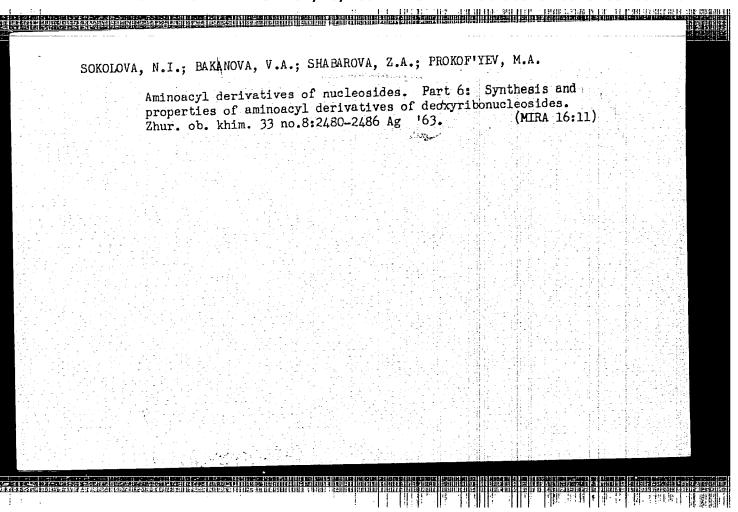
Synthesis of o-aminoacyl derivatives of adenosine and study of their properties. Zhur.ob. thim. 31 no.12:3899-3905 D'61.

(MIRA 15:2)

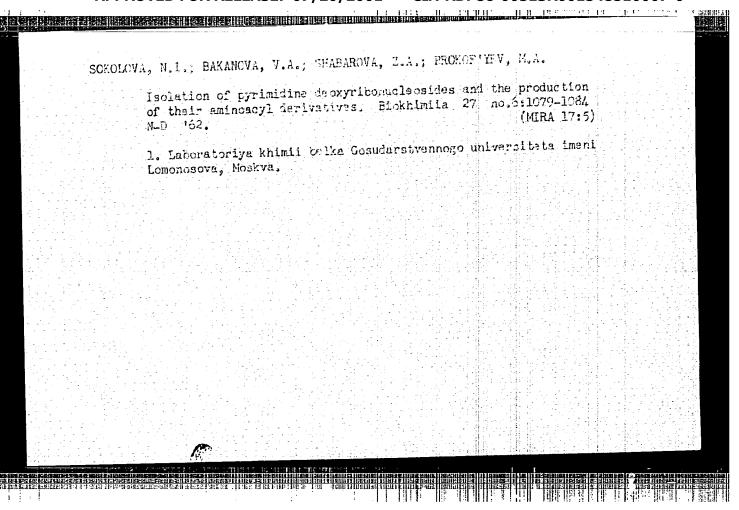
1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

(Adenosine)

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		1. Moskovskiy gos.	universitet im.	M.V. Lomonosova.	Predstavleno	akad.
		A.N. Nesmeyanovym.	(Nucleotides)			

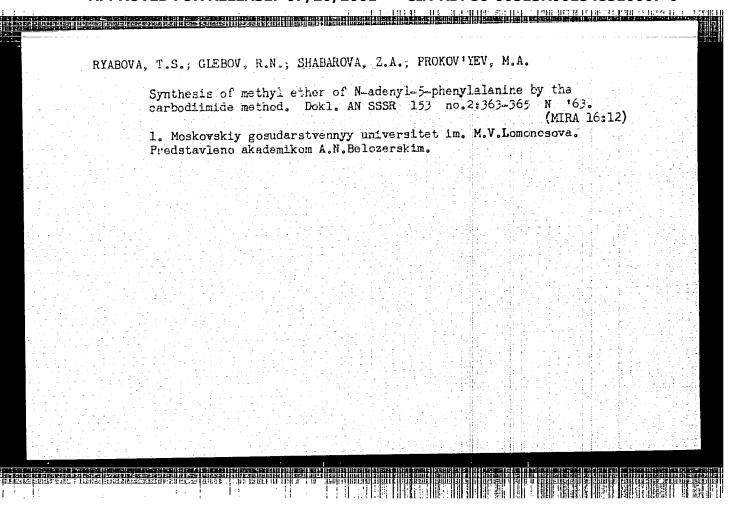


9KOUH, Z. H. GOFMAN, A.; FREY, A.I.; RUTSHMANN, I.; OTT, Kh.; SHEMYAKIN, M.M.; KISHFALUDI, L.; KOCHETKOV, N.K.; DEREVITSKAYA, V.A.; PROKOF YEV, M.A.; SHABAROVA, Z.A.; FILIPPOVA, L.A.; SHANKMAN, S.; KHAYGA, S.; LIV, F.; ROBERTS, M.Ye.; GÁVRILOV, N.I.; AKIMOVA, L.N.; KHLUDOVA, M.S.; MAKSIMOV, V.I.; IZELIN, B.M.; SHEPPARD, R.K.; SHKODINSKAYA, Ye.N.; VASINA, O.S.; BERLIN, A.Ya.; SOF'INA, Z.P.; LAHIONOV, L.F.; KNUNYANTS, I.L.; GOLUBEVA, N.Ye.; KARPAVICHUS, K.I.; KIL'DISHEVA, O.V.; MEDZIGRADSKIY, K.; KAFTAR, M.; LEV, M.; KORENSKI, F.; BUASSONA, R.A.; GUTTMAN, St.; KHOYGENIN, R.L.; ZHAKENO, P.A.; BAZHUS, S.; LENARD, K.; DUAL'SKI, S.; SHREDER, Ye.; SHMIKHEN, R.; KHOKHLOV, A.S. Results of the Fourth European Symposium on the chemistry of peptides. Abstracts of reports. Zhur. VKHO 7 no.4:468-476 (MIRA 15:8) 162. 1. Aktsionernoye obshchestvo "Sandos", Bazel', Shveytsariya (for Gofman, Frey, Ott, Rutshmann). 2. Farmatsevticheskaya fabrika "G.Rikhter", Budapesht, Vengriya (for Kishfaludi, Korenski, Dualski). 3. Institut khimii prirodnykh soyedineniy AN SSSR, Moskva (for Kochetkov, Derevitskaya, Shemyakin, Khokhlov). 4. Laboratoriya khimii belka Moskovskogo gosudarstvennogo universiteta (for Prokof yev, Shabarova, Filippova, Gavrilov, Akimova, Khludova). 5. Fond meditsinskikh issledovaniy, Passadena, Kaliforniya, Sev. Soyed. Shtaty Ameriki (for Shankman, Khayga, Liv, Roberts). 6. Laboratoriya khimii belka Instituta organicheskoy



PROKOF!	EV, M.A. [Prokof'yev, M.A.]; SHAPAROVA, Z.A.; FILIPPOVA, L.A.
	Peptide synthesis with some aminoacyl derivates of nucleosides and nucleotides. Coll Cz Chem 27 no.9:2248-2249 S '62.
	1. Moscow State University, U.S.S.R. (for Prokof'ev).
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	가는 당시한 사람들이 되었는데 보는 것이 되는 것을 하게 하는 것을 통해 당근하는 것이 가득하게 되고 하였다. 그는 그는 것이 하는 것을 하는 것이 되었다. 그들이 하는 것은 사람들이 모르는 것을 하는 것이 되었다.
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A, I.B.; SHABAROVA, Z.A.; BELOZERSKIY, A.N., akademik Structure of ribitteichoic acid from Actinomyces streptomycini. (MIRA 16:11)
Dokl. AN SSSR 152 no.6:14/1-14/4 0
1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
경기 타고 있는데 아무리를 하고 독통한 한 번째한 불제 등급을 받는데 했다.
그리아 왕의 시간 사람이 나를 하는 하고 하고 말을 하고 말을 하고 있다.
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이렇다는 그는 그리리가 살았다. 하늘 그리 일을 빼앗 바람들은 얼굴이 하는데
그리고 되는 한다. 그리고 말리는 것이 없는 그리는 모모네네 그를 모르는 것을 하고 말했다.
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SHABAROVA, Z.A.; SMIRNOV, V.D.; PROKOF'YEV, M.A.

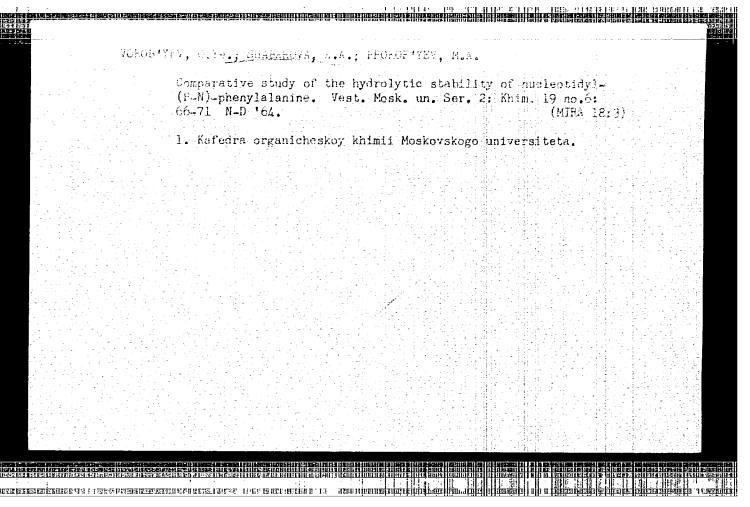
Peptide synthesis with the participation of 3' (2')-O-phenylalanyladenosine.
Blokhimita 29 no.3:502-507 My-Je '64. (MIRA 18:4)

1. Khimicheskiy fakul'tet Gosudarstvennogo universiteta imeni Lomonosova,
Moskva.

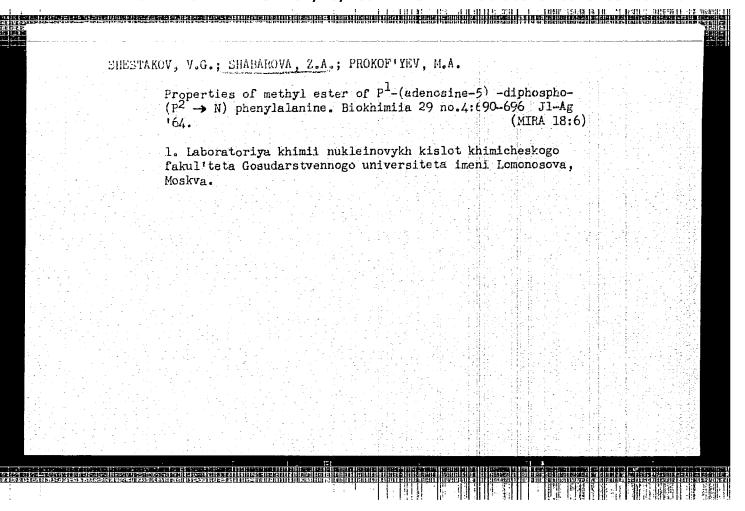
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VOROB! Y	EV, O.Y e.; SHABAROV	A, Z.A.; PROKOF'YE	V, M.A.		
	Synthesis of nucleomethod. Zhur.ob.khir	idyl(5' N)pheny 1. 34 no.1:359-361	lalanine by the p	oyrophosphate (MIRA 17:3)	
	1. Moskovskiy gosuda	rstvenn y y universi	Ltet imeni V.M.Lo	monosova.	
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Formentative hydrolysis of the phosphamide bond (54-xh)-amino acids. Dokl. AN SSSR 157 no. 2:4	in nucleotiny1- 175-474 J1 '64. (MIEN 17:7)
i. Mookevskiy osudarstvennyy universitet imeni Predstavleno akademikom A.N.Pelozerskim.	drienosova.
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		ynthesis of uridylyl-(5'->N)-phenylalanyl-3 okl. AN SSSR 160 no.4:845-848 F 165.		-adenosine PA 18:2)		
	1. Moskovskiy	gosudarstvennyy	universitet.		1964.	



ert, V. G., Challetta, L. A.; PROCHITTY, H. H.
Synthetic of aderogina finithospho-parcylelaning. Vest, Mork, on Ser. 2: Thir. 19 no.4:51-64 JU-Ag 164. (MIRA 18:8)
L. Bulletra organichenkoy khimit Moskovskego universileta.
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, I.S.; SEAEARDYA, Z.A.; PROKOF'YEV, M.A. Synthesis of adenily1-(5'→N)-phenylalanylval	.lylglyo!	ne.	Vest.	Mosk.	
un.Ser.2: hhim. 20 no.3:89-90 My-Je 165.				18:8)	
1. Kafedra organicheskoy khimii Moskovskogo u	universi	.te ts			

 TAKO V. V. SHAFAROVA, D.A., FROKOFIYEV, M.A.	
Sound of the kinewis of ADP-amino acid hydrolysis. Biokhimila 30 no.1x74-80 Je-F '65. (MJRA 1886)	
l. haboratoriya khimii nukleinovyka kislot khimicheskogo takui teba Gesudarstvennogo universiteba imeni Lomonosova, Moekva.	
스 마이스 보는 본 시간 이번 등을 가고 있는데 보고를 다 가를 받을 수 있다. 그 등을 있는 사람이 사람들은 전문하고 있는데 보고 있는데 모든 모든 사람들이 되었다.	
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MANSUROVA, S. E.; SHABAROVA, Z.A.; KULAYEV, I.S.

General characteristics of some new nucleotide containing acid soluble compounds isolated from the mycelium of Penicillium chrysogenum Thom. Blokhimia 30 no. 3:514-522 My-Je *65 (MIRA 19:1)

1. Khimicheskiy i biologicheskiy fakul*tety Gosudarstvennogo universiteta imeni Lomonosova, Moskva.

VORORIYEV, C.Ta.; SOKOLOVA, N.I.; MEL'NIKOVA, V.I.; SHABAROVA, Z.A.;
PROKOFIYEV, M.A.

Dinucleoside phospho-(Pm-N)-amino acid. Dokl. AN SSSR 166
no.1:95-98 Ja '66. (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet. Submitted April 21, 1965.

	L: 20371-65 EWT(m)/EPF(c)/EWP(j)/ Pc=4/Pr=4 RPL RM S/0020/64/158/001/0143/0148 , S/0020/64/158/001/0143/0148 ,
	AUTHOR: Vorob'yev, O. Ye.; Shabarova, Z. A.; Prokof'yev, M. A.
	TITLE: Synthesis of nucleotidyl-(P-N)-phenylalanine by the pyrophosphate me- thood SOURCE: AN SSSR. Doklady*, v. 158, no. 1, 1964, 143-146
	TOPIC TAGS: nucleotidyl aminoacid ester, phosphonamide, PN bond stability, phosphonamide bond, synthesis
	ABSTRACT: The following nucleotidyl-(P-N)-amino acid esters were synthesized by phosphorylating the amino acid esters with the nucleozid-diphenyl-pyrophosphate (I): uridilyl-(5'-N)-phenylalanine (II), adenilyl-(5'-N)-phenylalanine (III), guanilyl-(5'-N)-phenylalanine (IV), and 2', 5'-di-O-acetyl-uridilyl-(3'-N)-phenylalanine (V) methyl esters. I was prepared by condensing a 1-2 fold excess of dilanine (V) methyl esters.
	phenylchlorophosphate with the nucleotide, as a mono-(tri-n-octylammonium salt), in the presence of tri-n-butylamine in dioxane (II, V) or dimethylformamide (III, IV). The product was washed with ether and reacted directly with the aminoacid IV).
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L 20371-65 ACCESSION NR: AP4045099

ester at room temperature for 12 hours. These products were ether-washed and paper chromatographically purified. The phosphonamide bond in II, III, and IV hydrolysed completely in acid but was essentially stable at pH 5.4-14. The stability of the P-N bond in uridilyl-(3'-N)-phenylalanine depended on the presence of a protective group on the ribose: if the acetyl group were removed the P-N bond hydrolysed even in alkaline medium. Orig. art. has: 1 table, 1 equation and 2 fermulae.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 18Mar64

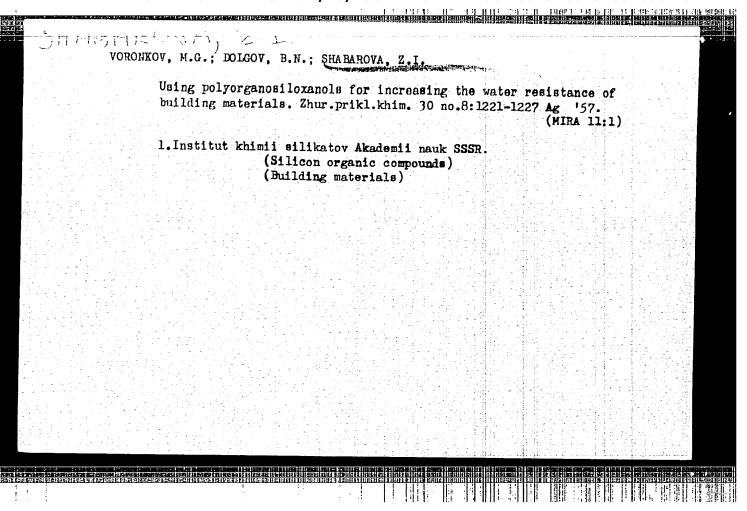
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OTHER: 007

Card 2/2



TO A PERSON NEW YORK OF THE PROPERTY OF THE PR SOV/62-59-6-10/36 5(4) Ryskin, Ya. I., Voronkov, M. G., Shabarova, Z. I. AUTHORS: The Infrared Absorption Spectrum of Triethyl Silanole-d, TITLE: (C2H5)3SiOD (Infrakrasnyy spektr pogloshcheniya trietilsilanola-d, $(C_2H_5)_3$ SiOD) Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, PERIODICAL: 1959, Nr 6, pp 1019 - 1024 (USSR) Two syntheses for the preparation of trialkylsilanole-d, and ABSTRACT: dialkylsilandiole-d, were worked out. They consist in an addition of etheric- or dioxane ether solutions of D,0 to a mixture of trialkyl chlorosilane, tertiary amine, and ethers, which was cooled down to 00. In the experimental part the synthesis is described still more in detail. The infrared spectrum was taken from the synthesized triethyl silanole (TES). Figure 1 represents the spectrum of the pure (TES) a) and of (TES) dissolved in CCl4 b). For the purpose of comparison, also the spectra of $(C_2H_5)_3$ SiOH and $(C_2H_5)_3$ SiOX with X=F, C1, NH₂ CH3, C2H5 were recorded. (Fig 2). The fundamental oscillation Card 1/2

The Infrared Absorption Spectrum of Triethyl Silanole-d, SOV/62-59-6-10/36 $(c_{2}H_{5})_{3}$ sion

> frequencies in the oscillation range of from 4000-700 cm⁻¹ were assigned to the different bonds in the compounds. The ratio of the isolated oscillation frequencies of the groups OH and OD was 1.34. The authors thank Ye. F. Gress for discussing the results obtained. There are 2 figures and 18 references, 6 of which are Soviet.

ASSOCIATION: Institut khimii silikatov Akademii nauk SSSR (Institute of Chemistry of Silicates of the Academy of Sciences, USSR)

SUBMITTED:

July 27, 1957

Card 2/2

CIA-RDP86-00513R001548510007-0" APPROVED FOR RELEASE: 07/20/2001

5(3)	Sov/79-29-5-27/75
AUTHORS:	Voronkov, M. G., Shabarova, 2.
TITLE:	Investigations in the Field of Alkoxy-stlanes (Issledovaniya v oblasti alkoksisilanov). 14. Cleavage of Organosiloxanes With Alcohols as Method of
	14. Cleavage of Organosilokales alon kitch hitching organosiloksanov spirtami kak metod sinteza organoalkoksisilanov) organosiloksanov spirtami kak metod sinteza organoalkoksisilanov)
PERIODICAL:	Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1528-1534 (USSA)
ABSTRACT:	It is known (Refs 3 - 9) that organosiloxanes are cleaved by hydroxides of alkali metals with the corresponding silanolates and silanola being formed. There are further indications (Refs 10 - 12) that silanola react with alcohola and yield
	alkoxy-silanes. In order to devise a method for sales with organoalkoxy-silanes by means of cleavage of organosiloxanes with alcohols in the presence of alkali, the two reaction mentioned alcohols in the presence of alkali, the two reaction mentioned
	method can be demonstrated in a general 101m 2, and MOH (A) \Rightarrow SiOSi \Rightarrow 2ROH \Rightarrow 2 \Rightarrow BiOR \Rightarrow H ₂ O
Card 1/3	M - atom of the alkali metal. By the application of this new

Investigations in the Field of Alkoxy-silanes. SOV/79-29-5-27/75 14. Cleavage of Organosiloxanes With Alcohols as Method of Synthesizing Organoalkoxy-silanes method it was possible to obtain 35 organoalkoxy silanes R'Si(OR)4-n (Table). n - 1,2 and 3; R' - CH_3 or C_6H_5 ; R - primary (normal or iso) or secondary alkyl radical with 4-12 carbon atoms. 8 of these compounds were synthesized for the first time. The reaction mechanism of the formation of organoalkoxy-silanes from organosiloxanes and alcohols can be illustrated by the following scheme: Si Co - Si SiOR + O - Si >SiO + ROH ⇒ >SiOH + RO (6) Si - OH + ROH >SiOR + HOH (7) In addition to a further reaction of silanol with alcohol (7) also the condensation not desired (8) is possible. 2 →SiOH → → SiOSi (+ H₂O There are 1 table and 18 references, 7 of which are Soviet. ASSOCIATION: Institut khimii silikatov Akademii nauk SSSR Card 2/3 (Institute of Silicate Chemistry of the Academy of Sciences, USSR) easternita i ntringin inggazi miningunggan pasasatan sanggara sanggaran kasasatan manasatan manasatan ka

s/079/60/030/06/04/009 B002/B016

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AUTHORS:

Voronkov, M. G., Shabarova, Z. I.

TITLE:

Investigations in the Field of Alkoxy Silanes. 15. Cleavage Reaction of Hexaalkyl-disiloxanes by Means of Phenols. New Method of Synthesizing Trialkyl Siloxy

Derivatives of Aromatic Hydrocarbons

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 6, pp. 1955-1958

TEXT: In addition to a previous paper by the authors (Ref. 1) (cleavage of alkoxy-siloxanes by means of alcohols), the same cleavage reaction was attempted here by means of phenols. The phenols have a strongly acid nature, the cleavage mechanism must be electronophilic, since the disilcxanes possess an electronophilic and a nucleophilic center. According to indications in publications which are referred to, strong protonic or aprotonic acids are therefore used as catalysts. The necessity of using these acids was confirmed experimentally in the present paper. The best catalysts were aromatic sulfo acids, especially benzene sulfo acid

Card 1/3

d**1,2**36

Investigations in the Field of Alkoxy Silanes. S/079/60/030/06/04/009
15. Cleavage Reaction of Hexaalkyl-disiloxanes B002/B016
by Means of Phenols. New Method of Synthesizing Trialkyl Siloxy Derivatives of Aromatic Hydrocarbons

(less convenient H₂SO₄ and ZnCl₂). Hexamethyl disiloxane could be cleft with phenol and its derivatives (all three isomers of cresol, p-chloro phenol, and phloroglucinol). The mono- and polytrialkyl-siloxy derivatives of the afore-mentioned aromatic compounds could thus be prepared. Six of these compounds have so far not been described. The reaction was performed in a flask with water outlet and a counter-current condenser. The mixture of 0.2 gram-mole of phenol, 1 g of catalyst, and 0.4 grammole of hexamethyl siloxane was boiled until water separated out, and the reaction mixture was distilled off. Yields, physical properties, and analytical data of all compounds synthesized are summarized in a table. Trimethyl siloxy-benzene was also synthesized with H₂SO₄ and ZnCl₂. In contrast with the 72% yields obtained with benzene sulfo acids, however, only a yield of 50 and 15%, respectively, could be obtained. All analyses were performed by Yu. N. Platonov, to whom the authors express their

gratitude. The reaction scheme is assumed to be as follows:

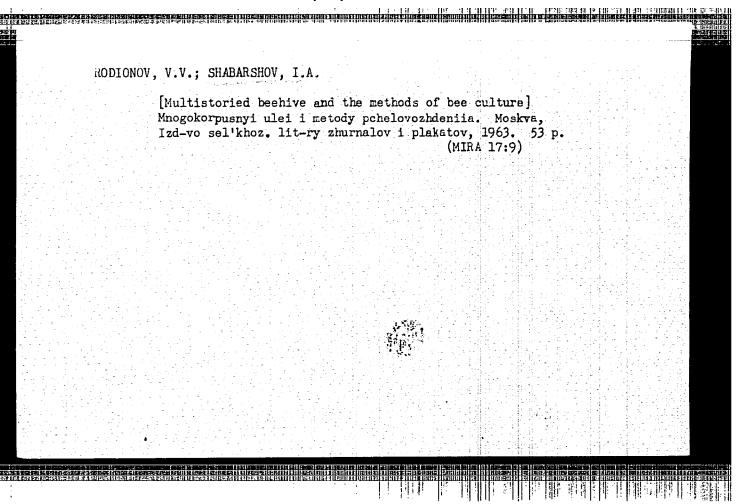
Card 2/3

Investigations in the Field of Alkoxy Silanes. S/079/60/030/06/04/009 15. Cleavage Reaction of Hexaalkyl-disiloxanes B002/B016 by Means of Phenols. New Method of Synthesizing Trialkyl Siloxy Derivatives of Aromatic Hydrocarbons H^{+} + - $\stackrel{\stackrel{\cdot}{\text{Si}}}{=}$ - $\stackrel{\stackrel{\cdot}{$ -SiOH₂+ + ArOH - -Si-OAr + H₃O+ There are 1 table and 8 references: 5 Soviet, 1 Scandinavian, and 1 American. ASSOCIATION: Institut khimii silikatov Akademii nauk SSSR (Institute of Silicate Chemistry of the Academy of Sciences of the USSR) SUBMITTED: June 11, 1960 Card 3/3

PREOBRAZHENSKAYA, N.N.; SOKOLOVA, N.I.; SHABAROVA, Z.I.; PROKOF'YEV, M.A.

Synthesis and properties of methyl sater of polyuridylyl(5'-)N)-phenylalanine. Khim. prirod. soed. no.5:342-347 '65.
(MIRA 18:12)

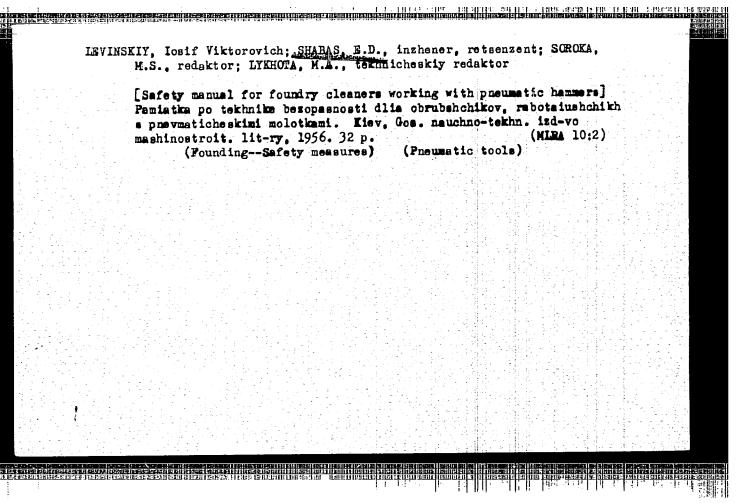
1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
Submitted May 25, 1965.



BATRAK, Ye.T.; BUBINA, N.G.; GORELOVA, T.N.; KORDIN, Yu.A.; KRYUKOV, B.I.; KUKUSHKINA, I.N.; LAZARYAN, V.A.; POLYAKOVA, Zh.D.; SHABARSHOVA, A.V. (Dnepropetrovsk)

"Study of regular displacement behaviours of bulk material over vibrating rough surface realizing given motion"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

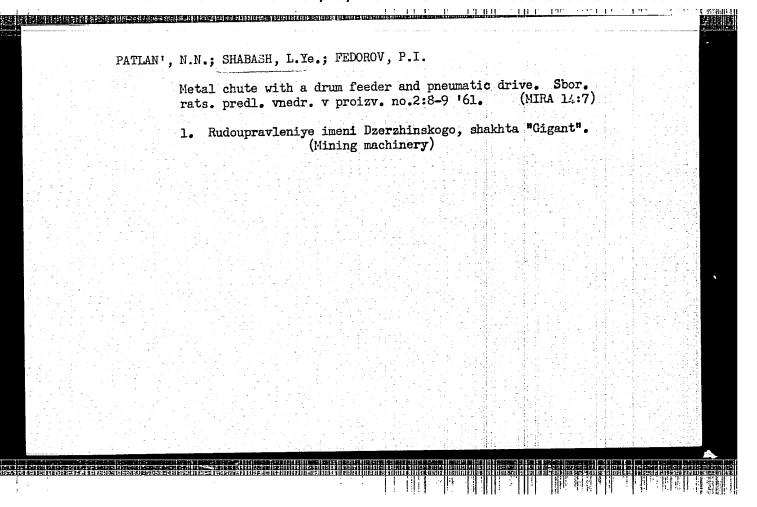


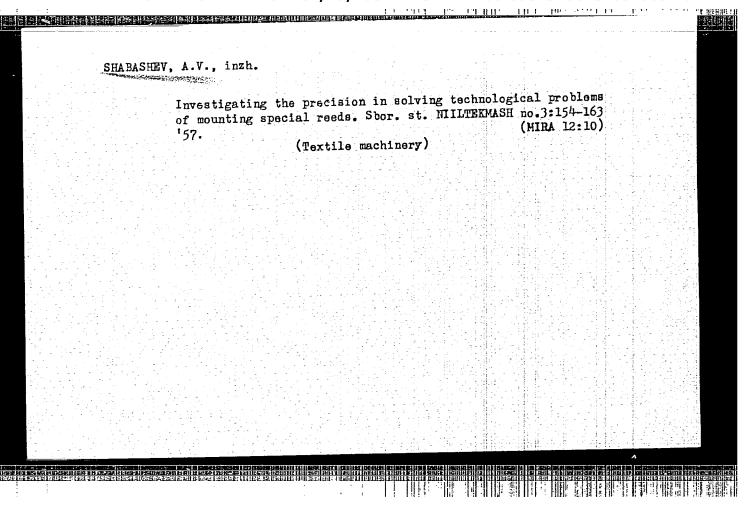
SHABASH, L. Ye., gornyy inzh.: SHESTAKOV, A.M., gornyy inzh.: VOLOSHIN, N.Ya., gornyy Inzh.

Investigating stresses in the axis of unloading gate rollers of an ISDM skip hoist. Gor. zhur. no.6:76-77 Je '65. (MIRA 18:7)

1. Institut Giprorudmash, Krivoy Rog.

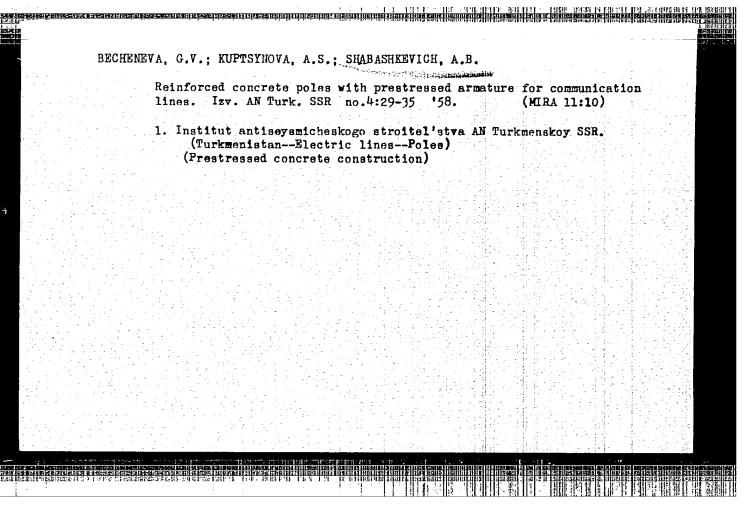
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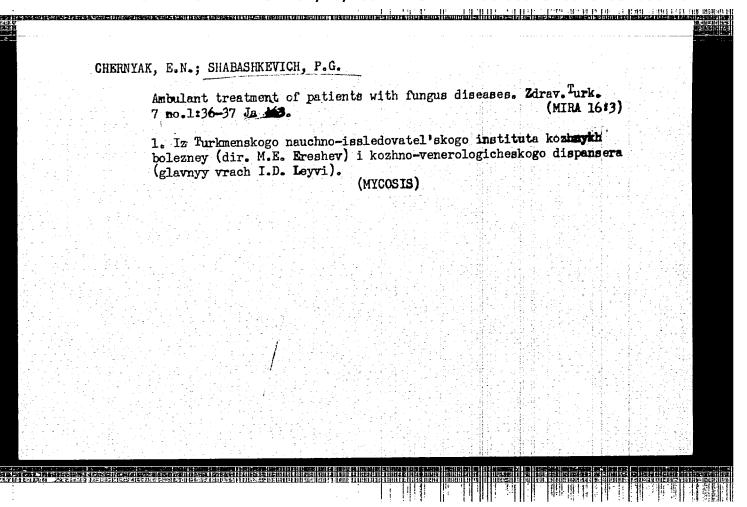


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ARUTYUNOVA, S.S.; SHARASHKEVICH, F.G.

Treatment of trichomycoeic with epilin. Zdrav. Turk. 7 no.4:
36-40 Ap163. (MIRA 16:6)

1. Iz Turkmenskogo nauchno-issledovatel'skogo instituta kczhnykh bolezney (dir. - M.E.Ereshov, nauchnyy rukowoditel' - prof. N.F.Rodyakin') i Ashkhabadskogo gorodskogo kozhno-wenerologicheskogo dispansera (glavnyy vrach - I.D.Leyvi)

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